

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: HSIAO, Cheng-Fang

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EXAMINER: Comas, Y.

TITLE: DIRECT CURRENT BRUSHLESS VIBRATION MOTOR

Amendment B: CLAIM AMENDMENTS

Claim 1 (canceled). This claim is canceled by the previous amendment.

Claim 2 (canceled). This claim is canceled by the present amendment.

3. (new) A direct current brushless vibration motor comprising:

    a housing;

    a stator mounted in said housing, said stator having a rotor mounting slot formed centrally therein with an inner wall entirely surrounding said rotor mounting slot, said inner wall having a series of pole teeth formed thereon and facing toward said rotor mounting slot, said series of pole teeth arranged at an interval, said inner wall having a plurality of coil plates forming annular slots with a coil contact extending outwardly of said annular slots, said pole teeth being in electromagnetic contact with said coil contact;

    a rotor mounted in said rotor mounting slot, said rotor having a magnetic cylindrical body with an outer peripheral wall facing said inner wall of said stator, said rotor having a rotary disk support disposed entirely in a hollow interior of said magnetic cylindrical body, said peripheral wall of said magnetic cylindrical body having a series of rotor pole pairs thereon, each of the rotor pole pairs having a north magnetic pole and a south magnetic pole, and

    a rotary shaft mounted in a center of said rotary disk support, said rotary disk support having a plurality of through holes extending therethrough, said plurality of through holes being distributed unevenly so as to cause said rotor to have an unbalanced vibratory rotation.